BS MICROBIOLOGY

2007-09 Cal Poly Catalog

Biological Sciences Department
Fisher Science Hall (33), Room 273
(805) 756-2788

☐ 60 units upper division ☐ GWR
☐ 2.0 GPA ☐ USCP
* = Satisfies General Education requirement
Course sequencing: See flowcharts at www.calpoly.edu/~cosamac

MAJOR COURSES
BIO 160 Diversity & the History of Life ................ 4
BIO 161 Introduction to Cell & Molecular Biology (B2&B4)* .................................................. 4
BIO 263 Introductory Ecology and Evolution .......... 4
BIO 351 Principles of Genetics .............................................. 5
BIO 426 Immunology .................................................. 4
BIO 452 Cell Biology .................................................. 4
MCRO 224 General Microbiology I ....................... 5
MCRO 225 General Microbiology II ....................... 5
MCRO 402 General Virology ............................................ 4
MCRO 423 Medical Microbiology ............................. 5
MCRO 424 Microbial Physiology ............................... 5
MCRO 461 Senior Project – Research Proposal or BIO 462 Senior Project - Research .................. 2
Advisor approved electives ...................................... 18

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SUPPORT COURSES
CHEM 127 General Chemistry (B3&B4)* .................. 4
CHEM 128, 129 General Chemistry I, II .................. 4, 4
CHEM 316 Organic Chemistry I ................................. 5
CHEM 317 Organic Chemistry II .................................. 5
CHEM 371 Biochemical Principles .......................... 5
MATH 161 Calculus for the Life Sciences I (B1)* .... 4
PHYS 121, 122, 123 College Physics I, II, III .......... 4, 4, 4
STAT 218 Applied Statistics-Life Sciences (B1)* .... 4

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GENERAL EDUCATION (GE)
72 units required; 16 units are in Major/Support.
→ See page 56 for complete GE course listing.
→ Minimum of 12 units required at the 300-400 level.

Area A Communication (12 units)
A1 Expository Writing .............................................. 4
A2 Oral Communication ............................................ 4
A3 Reasoning, Argumentation, and Writing ............ 4

Area B Science and Mathematics (no add'l units req'd)
B1 Mathematics/Statistics * 8 units in Support ...... 0
B2 Life Science * 4 units in Major ......................... 0
B3 Physical Science * 4 units in Support ............... 0
B4 One lab taken with either a B2 or B3 course

Area C Arts and Humanities (20 units)
C1 Literature .......................................................... 4
C2 Philosophy ......................................................... 4
C3 Fine/Performing Arts .......................................... 4
C4 Upper-division elective .................................... 4
Area C elective (Choose one course from C1-C4) ... 4

Area D/E Society and the Individual (20 units)
D1 The American Experience (40404) ................. 4
D2 Political Economy ............................................ 4
D3 Comparative Social Institutions ...................... 4
D4 Self Development (CSU Area E) ....................... 4
D5 Upper-division elective .................................... 4

Area F Technology Elective (upper division) (4 units) 4

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ELECTIVES ........................................................... 8

180

1 Students planning to attend graduate or professional schools are strongly advised to meet with their advisors to ensure that they meet necessary prerequisites for entry into these programs. Additional courses in math and chemistry may be necessary.
2 CHEM 313 may be substituted, with advisor approval, for students not planning to pursue graduate school, or a health professions career.